IN THE CLAIMS:

Please cancel claims 14 and 20 without prejudice.

Claims 1-13, 15-19 and 21-23 are pending in the application.

1. (Currently Amended) A method of responding to an anomalous change in downhole pressure in a bore hole comprising:

detecting the anomalous change in downhole pressure with a sensor in one of a plurality of nodes at a first location along a segmented electromagnetic transmission path integrated into the a tool string comprising a plurality of inductively coupled wired pipes;

sending a signal along the segmented electromagnetic transmission path;

receiving the signal by at least one receiver <u>in another of the plurality of nodes</u> in communication with the segmented electromagnetic transmission path; and

performing an automated response at a second location along the drill string

electromagnetic transmission path.

- 2. (Original) The method of claim 1 wherein the anomalous change in downhole pressure is selected from the group consisting of a pressure kick, a blowout, and loss of circulation.
- 3. (Currently Amended) The method of claim 1 wherein the anomalous change in downhole pressure is detected by at least one pressure sensor associated with nodes, integrated tools, non-integrated tools, or bottom-hole assemblies.
- 4. (Original) The method of claim 3 wherein the at least one downhole pressure sensor is located near the bottom of the downhole tool string.
- 5. (Original) The method of claim 1 wherein the at least one receiver is selected from the group consisting of a blowout preventor, a drilling fluid flow regulator, a computer, a router, a node, an actuator, and an alarm.

- 6. (Original) The method of claim 1 wherein the automated response is selected from the group consisting of actuating a blowout preventor, adjusting the flow of drilling fluid, and broadcasting an alarm.
- 7. (Original) The method of claim 1 wherein the automated response is performed immediately upon receiving the signal.
- 8. (Original) The method of claim 1 wherein the automated response is performed by the receiver.
- 9. (Currently Amended) The method of claim 1 wherein the method further comprises the step of <u>automatically</u> actuating an action performing device by the receiver.
- 10. (Original) The method of claim 9 wherein the automated response is performed by the action performing device.
- 11. (Original) The method of claim 9 wherein the action performing device is selected from the group consisting of a blowout preventor, a drilling fluid pump, and an alarm.
- 12. (Original) The method of claim 9 wherein the action performing device is located on the downhole tool string, in a well bore, or mounted on a drilling rig.
- 13. (Currently Amended) An apparatus for responding to an anomalous change in downhole pressure in a tool string for drilling a bore hole, comprising:
- a segmented electromagnetic transmission path integrated into the tool string <u>comprising</u> a plurality of inductively coupled wired pipes;

the segmented electromagnetic transmission path adapted to communicate with one or more receivers in one or more of a plurality of nodes spaced along the tool string;

at least one downhole <u>pressure</u> sensor <u>in another of the plurality of nodes</u> in communication with the segmented electromagnetic transmission path;

the receiver being in communication with the sensor via the electromagnetic transmission path, wherein

the <u>an</u> anomalous change in <u>a</u> downhole pressure is detected at a first location along the tool string and an automated response is actuated at a second location along the <u>drill tool</u> string.

14. (Canceled)

- 15. (Original) The apparatus of claim 13 wherein the anomalous change in downhole pressure is selected from the group consisting of a pressure kick, a blowout, and loss of circulation.
- 16. (Original) The apparatus of claim 13 wherein the at least one receiver is selected from the group consisting of a blowout preventor, a drilling fluid flow regulator, a computer, a router, a node, an actuator, and an alarm.
- 17. (Original) The apparatus of claim 13 further comprising at least one action performing device selected from the group consisting of a blowout preventor, a drilling fluid flow regulator, and an alarm.
- 18. (Original) The apparatus of claim 17 wherein the at least one receiver is adapted to actuate the action performing device.
- 19. (Original) The apparatus of claim 17 wherein the action performing device is located on the downhole tool string, in a well bore, near a well bore, or mounted on a drilling rig.

20. (Canceled)

21. (Original) The apparatus of claim 13 wherein the at least one pressure sensor is located near the bottom of the downhole tool string.

- 22. (Original) The apparatus of claim 13 wherein the automated response is selected from the group consisting of actuating a blowout preventor, adjusting the flow of drilling fluid, and broadcasting an alarm.
- 23. (Original) The apparatus of claim 22 wherein the blowout preventor is selected from the group consisting of a ram-type blowout preventor, an annular blowout preventor, a coiled tubing blowout preventor, and a spherical blowout preventor.